

FIGURE 1

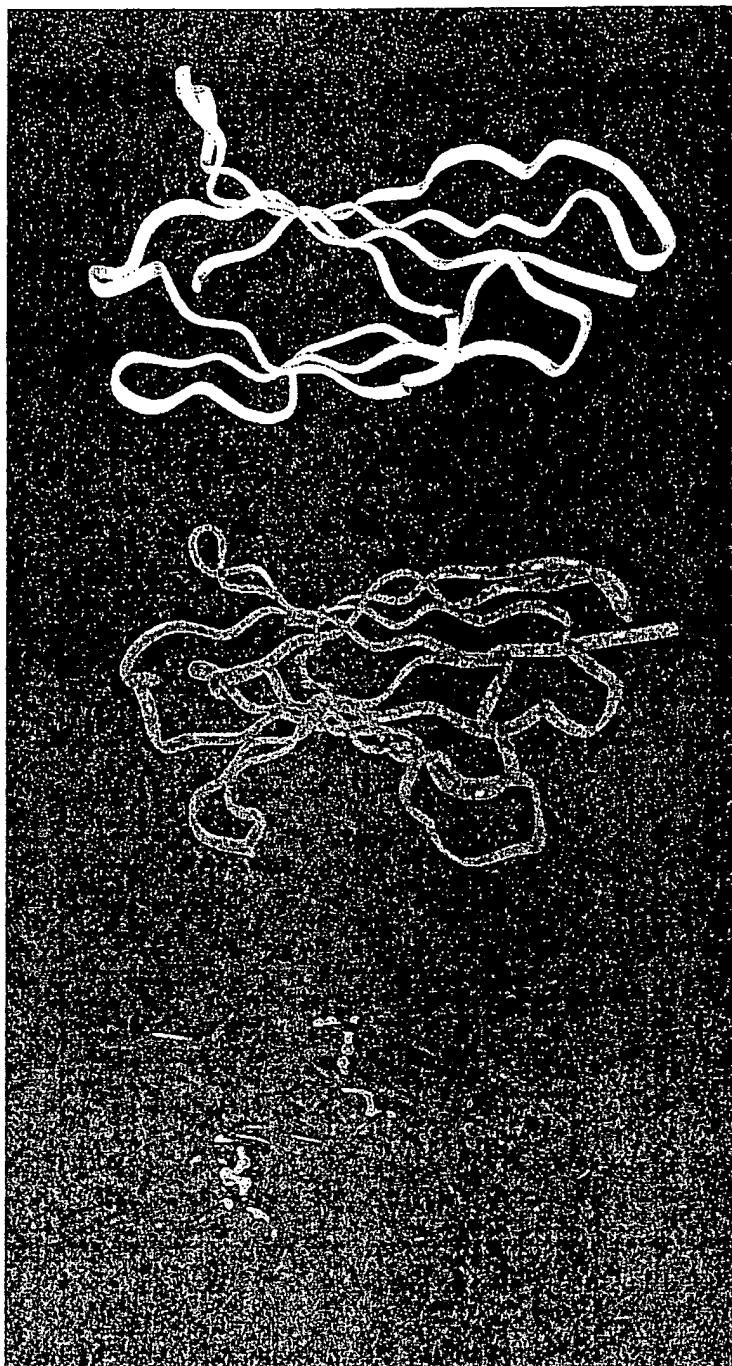


FIGURE 2

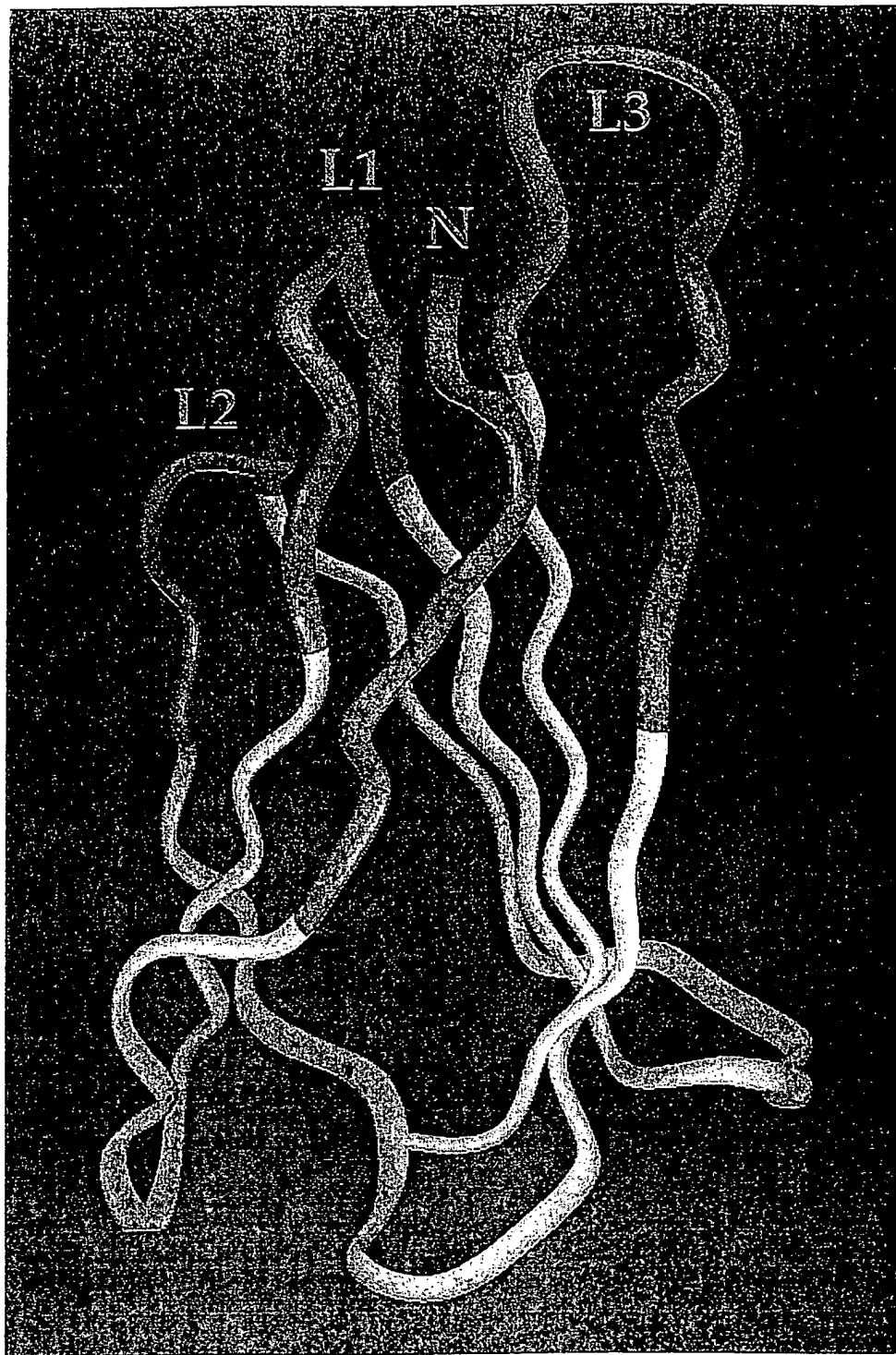


FIGURE 3

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Title: PROTEIN SCAFFOLDS FOR ANTIBODY MIMICS AND OTHER BINDING PROTEINS

Applicant(s): Lipovsek et al.

Filing Date: December 3, 2003 Serial No.: Not yet assigned

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	1	9	10	19	20	29	30	37	38	47	48	57	58	67	68	77	78	87	88	
Hs FND	VSDVPRD-LE	VVAATPTSLL	ISWDAPAVTV	RYRITYG--	ETGNSPVQE	FTVPGSKSTA	TISGLKPGVD	YTITVAVTG	RGDSPASSKP	ISINYRT	94									
Bt FN	VSDVPRD-LE	VIAATPTSLL	ISWDAPAVTV	RYRITYG--	ETGNSPVQE	FTVPGSKSTA	TISGLKPGVD	YTITVAVTG	RGDSPASSKP	VSINYRT	1510									
Rn FN	VSDVPRD-LE	VIATPTSLL	ISWEPNAVSV	RYRITYG--	ETGNSPVQE	FTVPGSKSTA	TINNIKPGAD	YTITLXAVTG	RGDSPASSKP	VSINYQT	1611									
Mm FN	VSDIPRD-LE	VIATPTSLL	ISWEPNAVSV	RYRITYG--	ETGNSPVQE	FTVPGSKSTA	TINNIKPGAD	YTITLXAVTG	RGDSPASSKP	VSINYKT	712									
Oc FN	VSDVPRD-LE	VIATPTSLL	ISWEPNAVTV	RYRITYG--	ETPN--	-----	-----	-----	-----	-----	64									
Gg FN	VSDVPRD-LE	VNPPTSLE	ISWDAPAVTV	RYRITYG--	ETGNSPVQE	FTVPGTMSA	TITGLKPGVD	YTITVAVTG	RGDSPASSKP	VTVTYKT	443									
X1 FN	VSDVPTD-LE	VTSSSPNTLT	ISWEAPAVSV	RYRITYS--	QTGGHGPEKE	FTVPGTMSA	TIRGLNPGVS	YTITVAVTG	RGDSPASSKP	LTIIHKT	1611									
Cf FN	AIAPSN-Lr	FLATTPNSLL	VSQOPPrArI	TGYIIKYE--	kpgSPPrEV	prpPGVTEA	TITGLEPGE	YTIQVIAIKN	NQKSePLIGr	kKtDEL-	197									
Ec FN	AIAPSN-Lh	FLATTPNSLL	ISWQPrArI	TGYIIKYE--	kpgSPPrEV	prpPGVTEA	TITGLEPGE	YTIQVIAIKN	NQKSePLIGr	rKtDEp-	197									
Hs TC	VS-PPKD-Lv	VTeVTeetVN	LAWDN-eMrV	TeYLXVYTP-	THEGGLEMQ	FrVPGDQST	IIQeLePGVE	YFIRVFAILE	NKKSIPVSAR	V-----	686									
Ss TP	VS-PPKD-Li	VTeVTeetVN	LAWDN-eMrV	TeYLXVYTP-	THEGGLEMQ	FrVPGDQST	TIRELePGVE	YFIRVFAILE	NKKSIPVSAR	V-----	686									
Mm TX	MiDGPQD-Lr	VWAVTPTTLD	LSWLrPQAEv	DfFVVSXV--	--SAGNqRvI	LeVPEADrT	QLTDLMPGVE	YVTVTAERG	HAVSYPASIr	ANTG----	889									
Hs CAP	TlpPvVvSLN	IYdVGPTTMH	VQWQp-VGGA	TGYIISXKpV	kDTEPTpKp	VrLGPTVNDM	QLTdlVPNTE	YAVTVQAVLh	dlTsepVTVr	e-----	1551									
Oc C12	TlpPvVvSLN	IYdVGPTTMH	VQWQp-VGGA	TGYIISXKpV	kDTEPTpKp	QdVklRdVTH	-----	-----	-----	-----	322									
Gg C14	LalpnASDLk	LYdVShSSMR	AKWnG-VAGA	TGYMILYAPL	TEGLAADEKE	IKIGEAStel	ELDGLLPNTE	YTVTVYAMF-	-----	-----	508									
Hs U1	LalpnASDLl	LYdVTensMR	VKWDA-VpGA	SGYLILYAPL	TEGLAGDEKE	MkIGETHrDI	ELSGLLPNTE	YTVTVYAMFG	eeASDpVTGq	e-----	321									

var.

cons.	P	L	V	SL	W	V	Y	I	Y	I	L	PGVD	Y	ITV	A	G	S	P
	M		I	TV		A	F	V		L	I	NTE	VQL	N	R			
			L	M		I						AS	R	E				
			F															

CAP	Collagen alpha precursor	BOLD	identical to Hs FND
C12	Collagen type 12		
FND	Fibronectin type III domain	lower case	non-conservative substitution (charge reversal, change between hydrophobic and charged, addition or removal of P) position of non-conservative substitutions
FN	Fibronectin		
TP	Tenascin precursor		
TC	Tenascin-C		
U1	Undulin 1		

Bt	Bovis taurus	cow
Cf	Canis familiaris	dog
Ec	Equus caballus	horse
Ss	Sus scrofa	pig
Hs	Homo sapiens	human
Oc	Oryctolagus cuniculus	rabbit
Xl	Xenopus laevis	African clawed frog

FIGURE 4



FIGURE 5

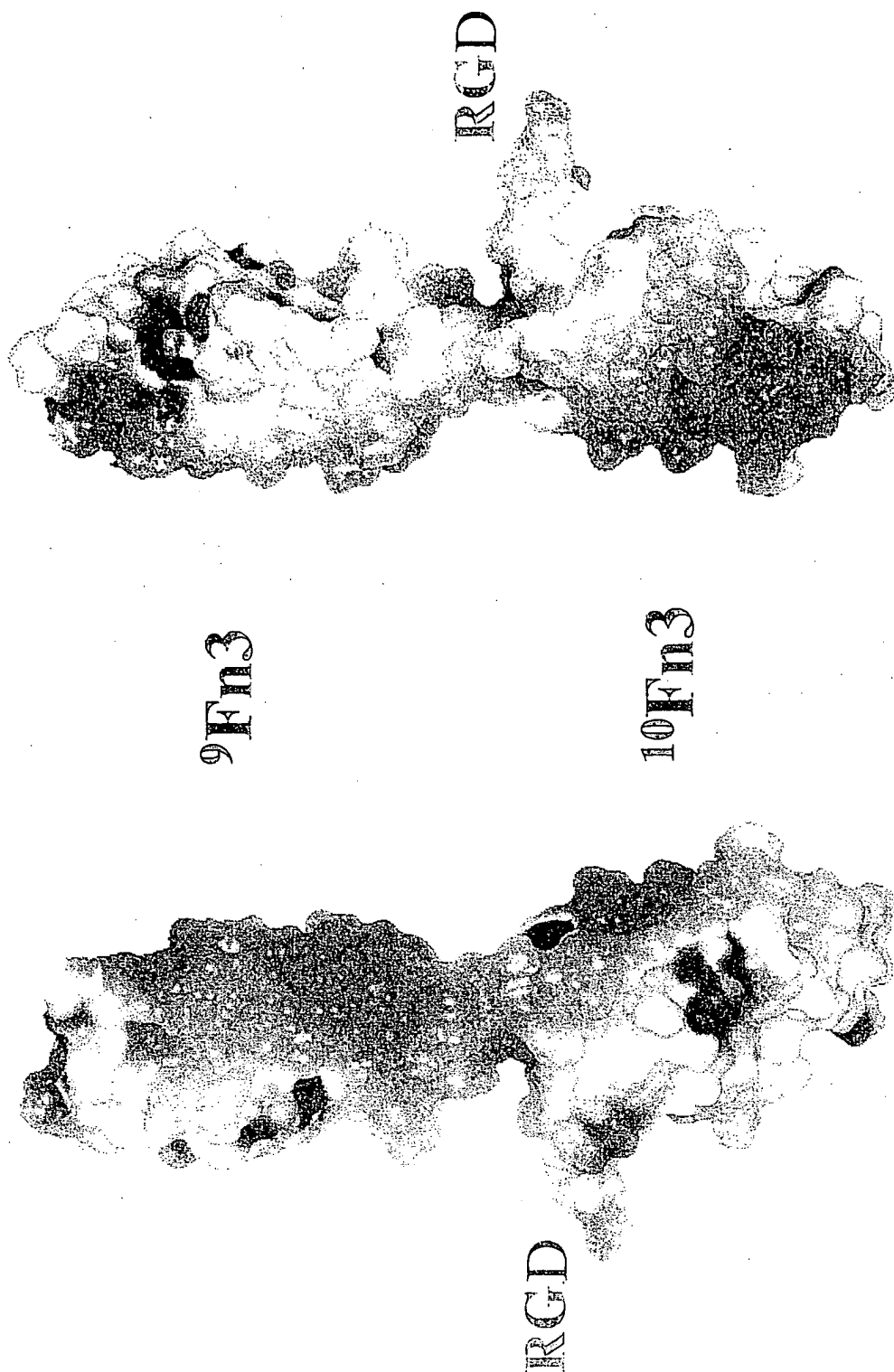
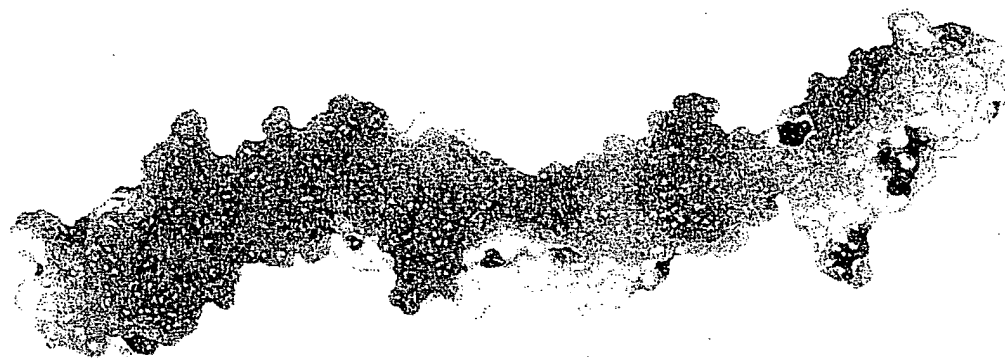
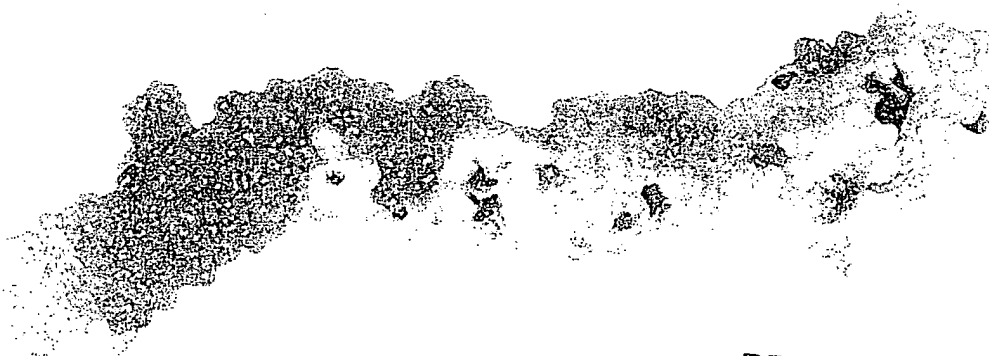


FIGURE 6



7En3

8En3

9En3

10En3

FIGURE 7

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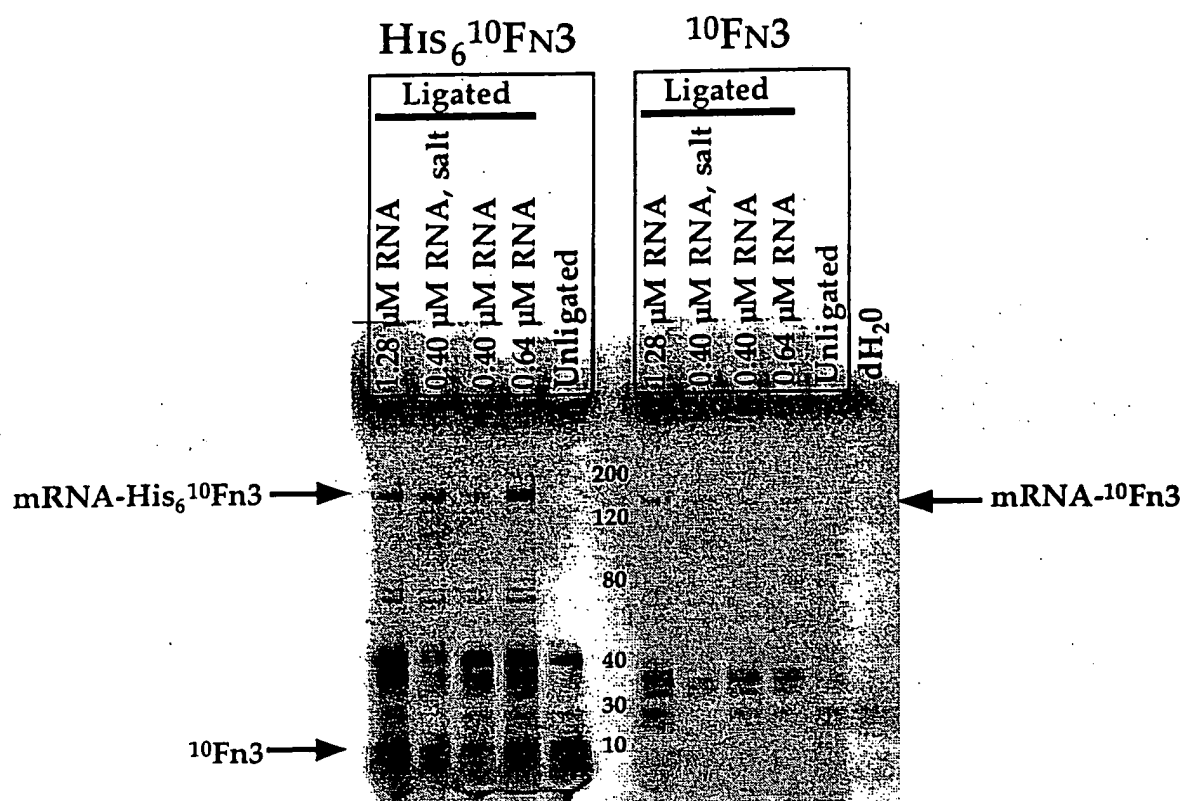


FIGURE 8

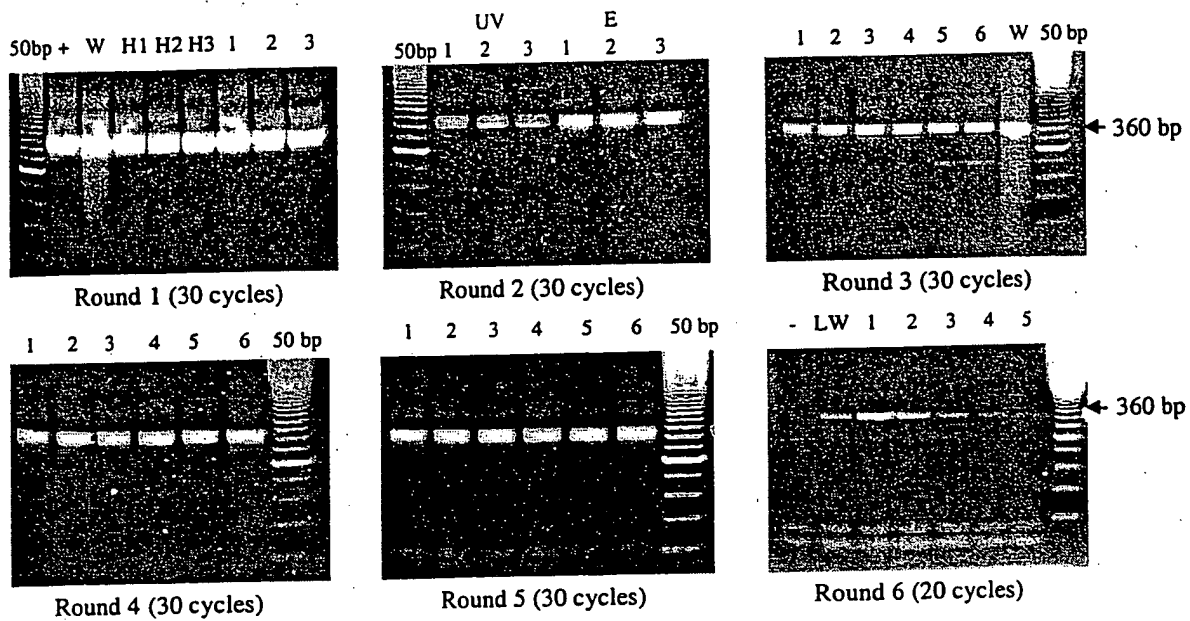


FIGURE 9

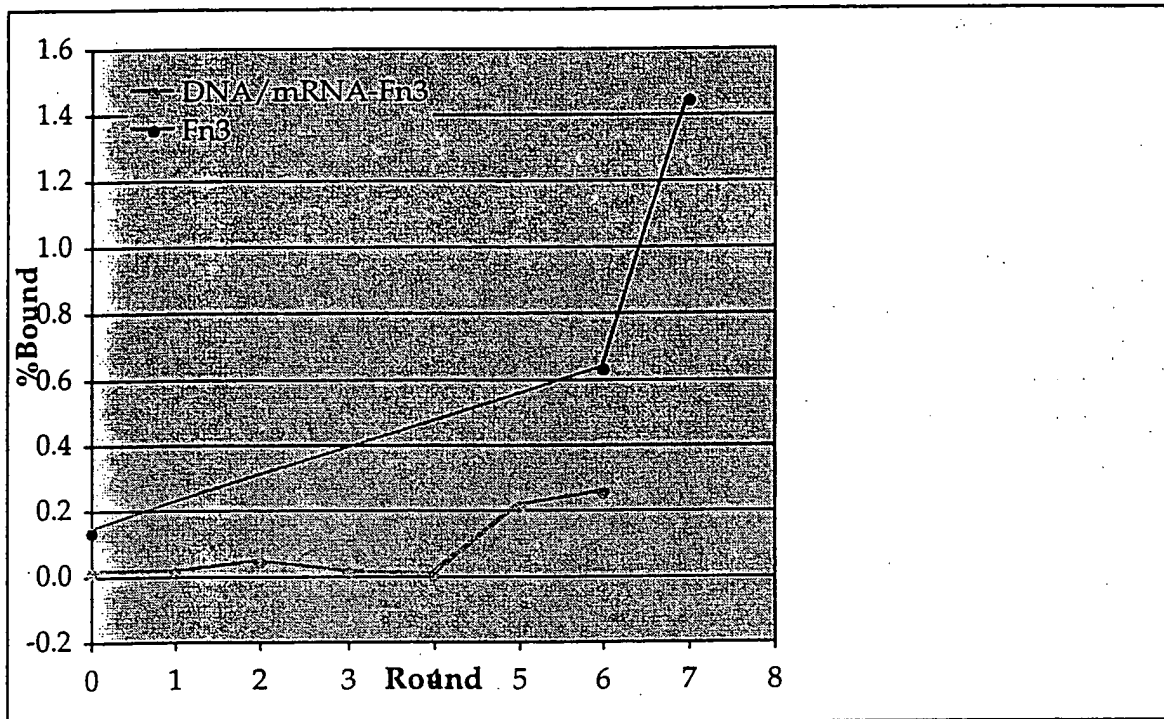


FIGURE 10

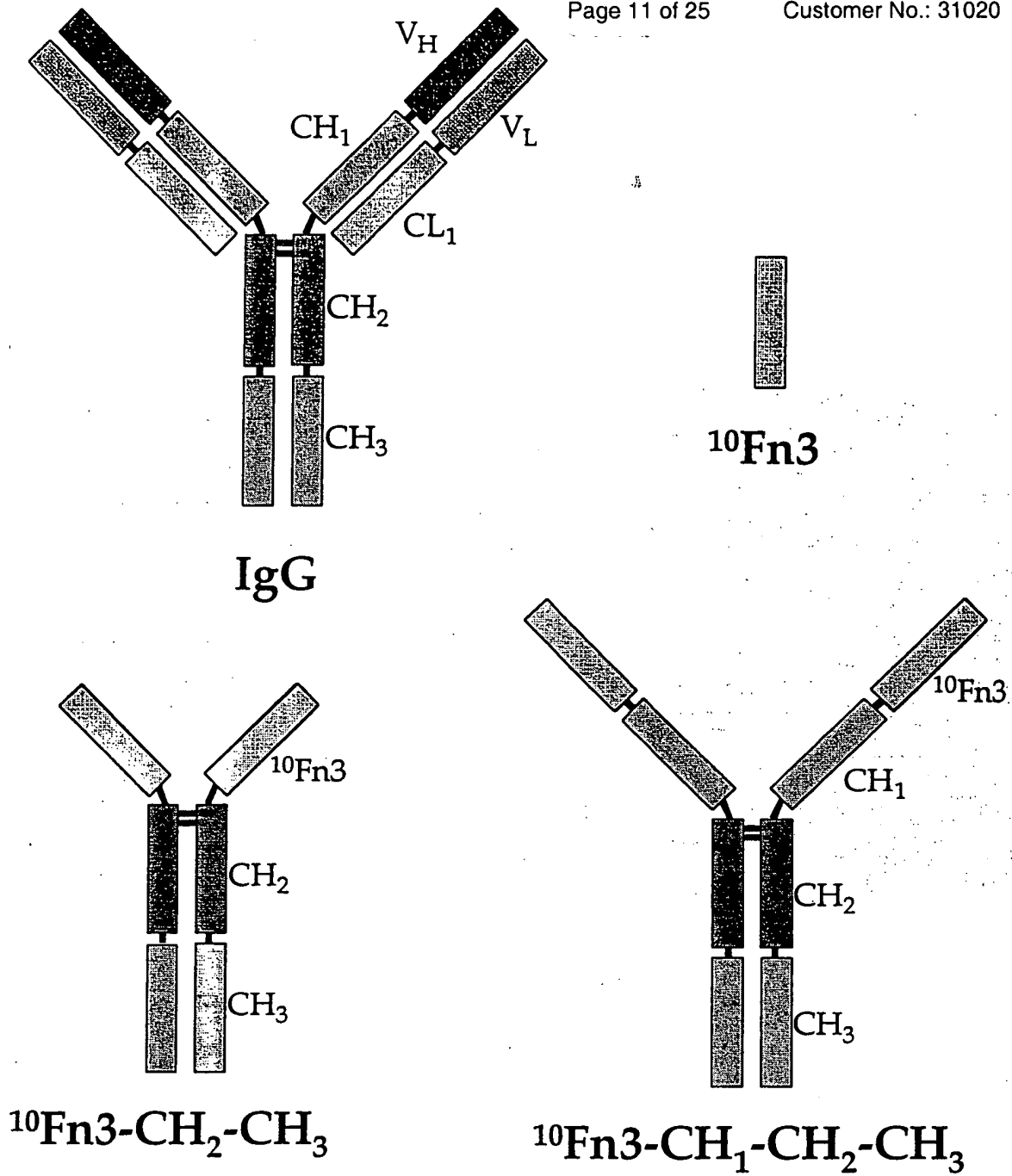


FIGURE 11

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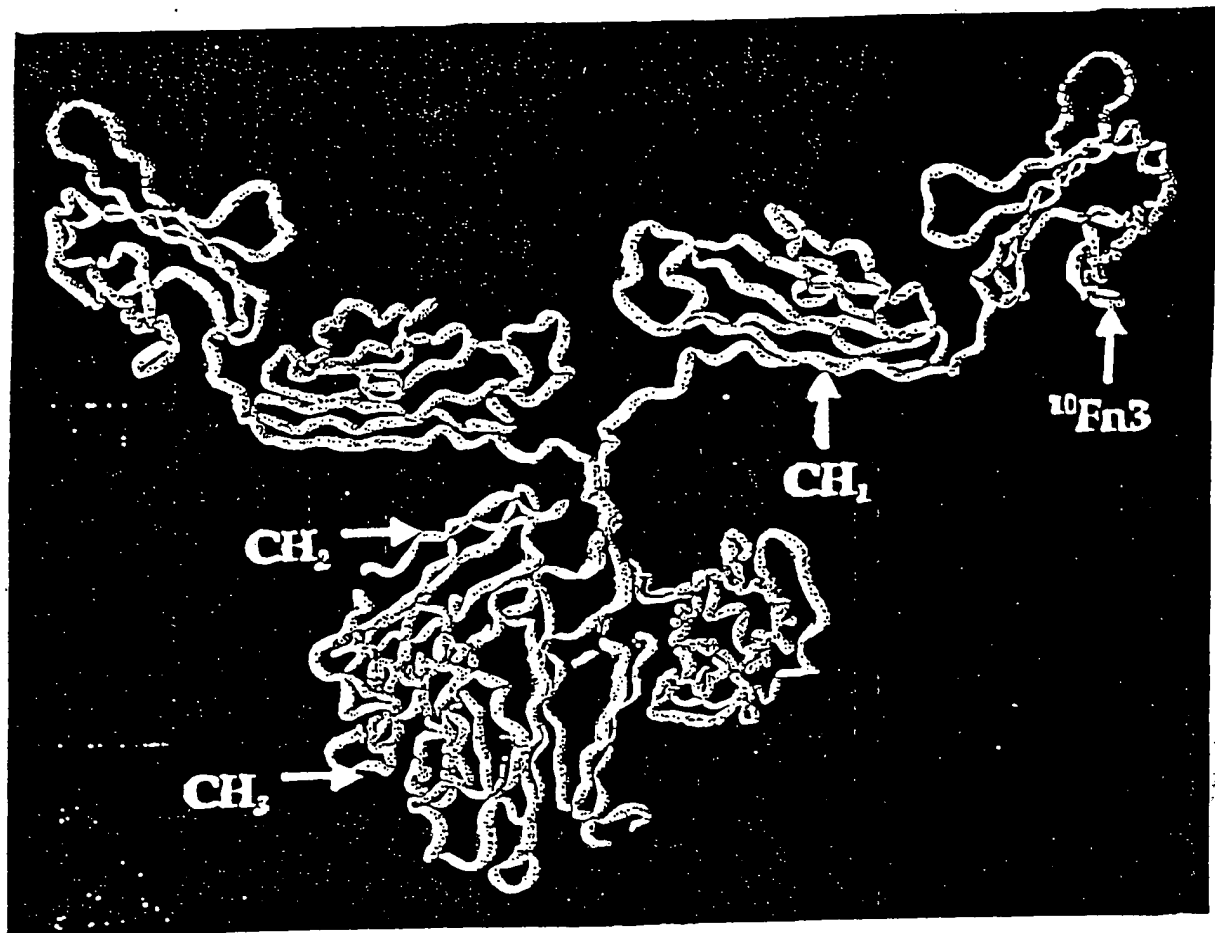


FIGURE 12

BEST AVAILABLE COPY

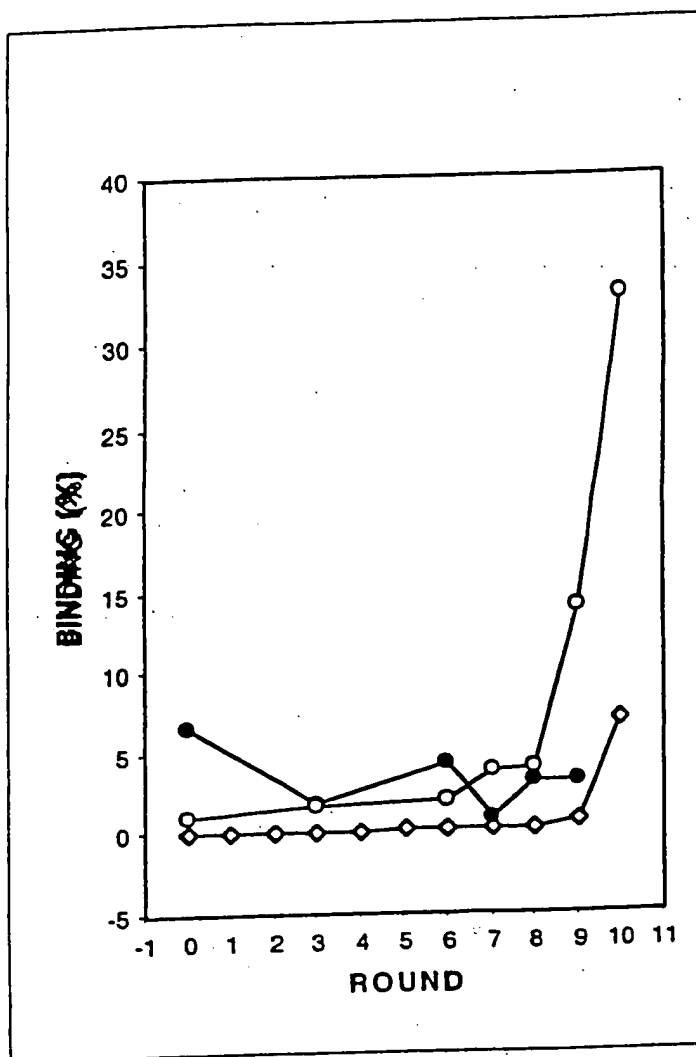


FIGURE 13

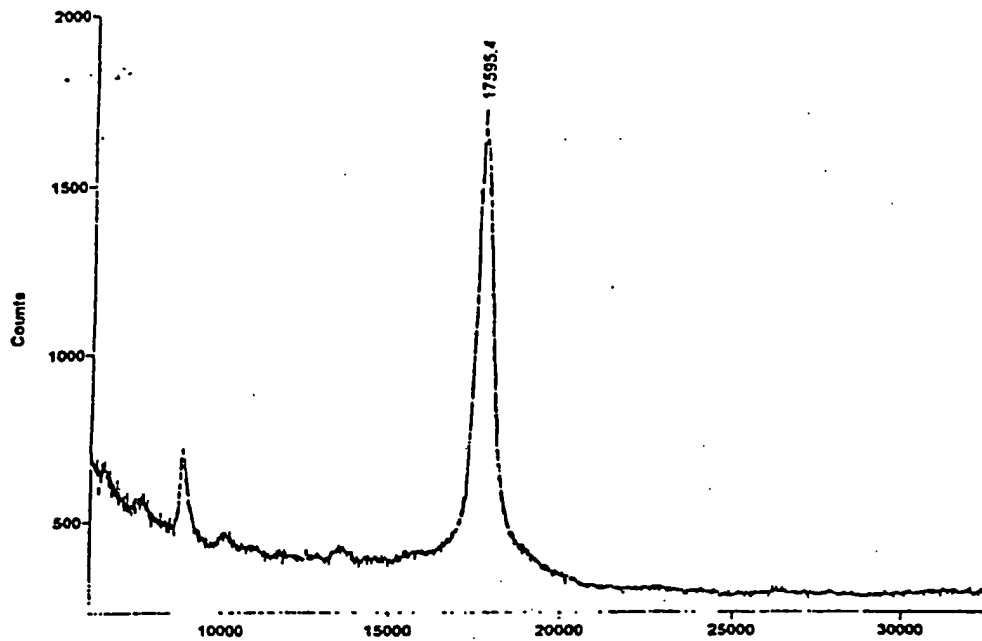


FIGURE 14

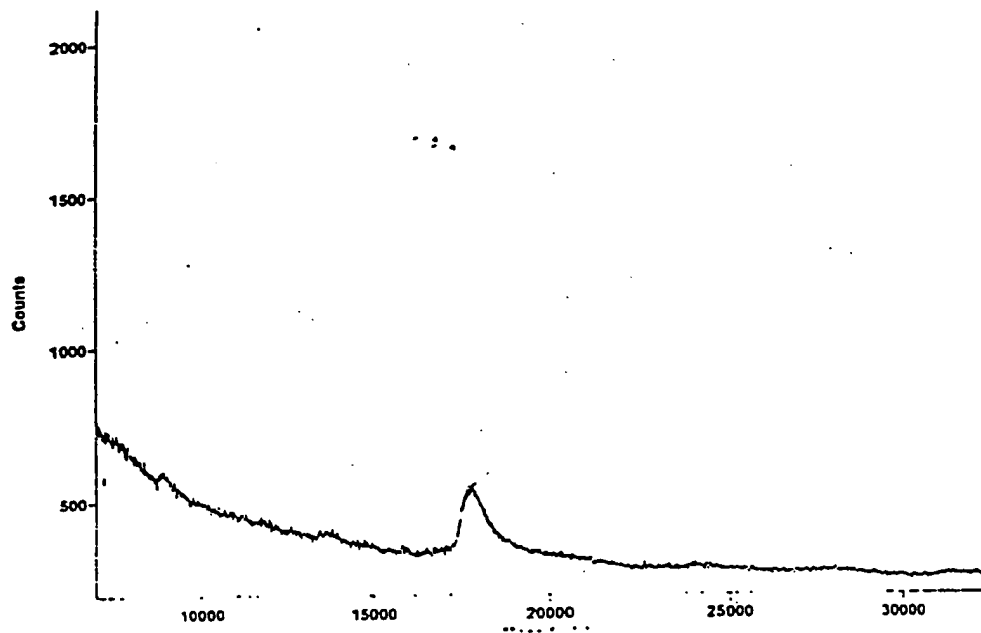


FIGURE 15

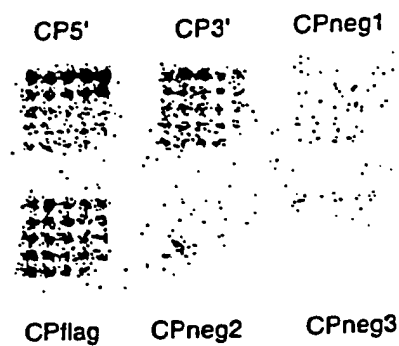


FIGURE 16

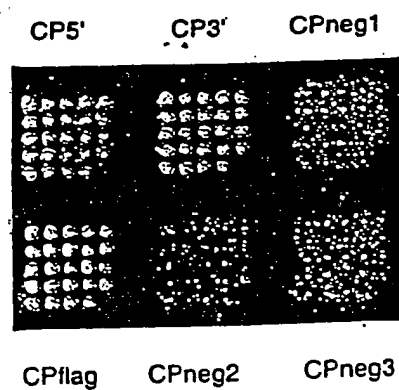


FIGURE 17

FIGURE 18

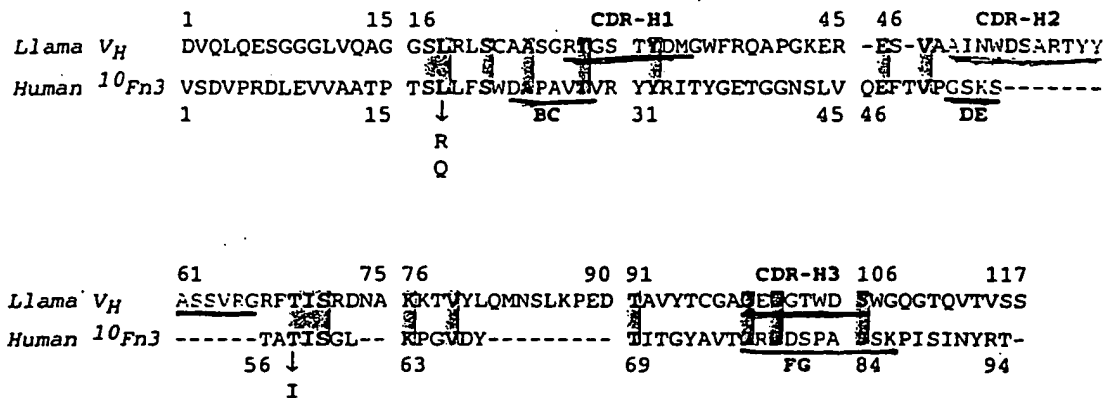
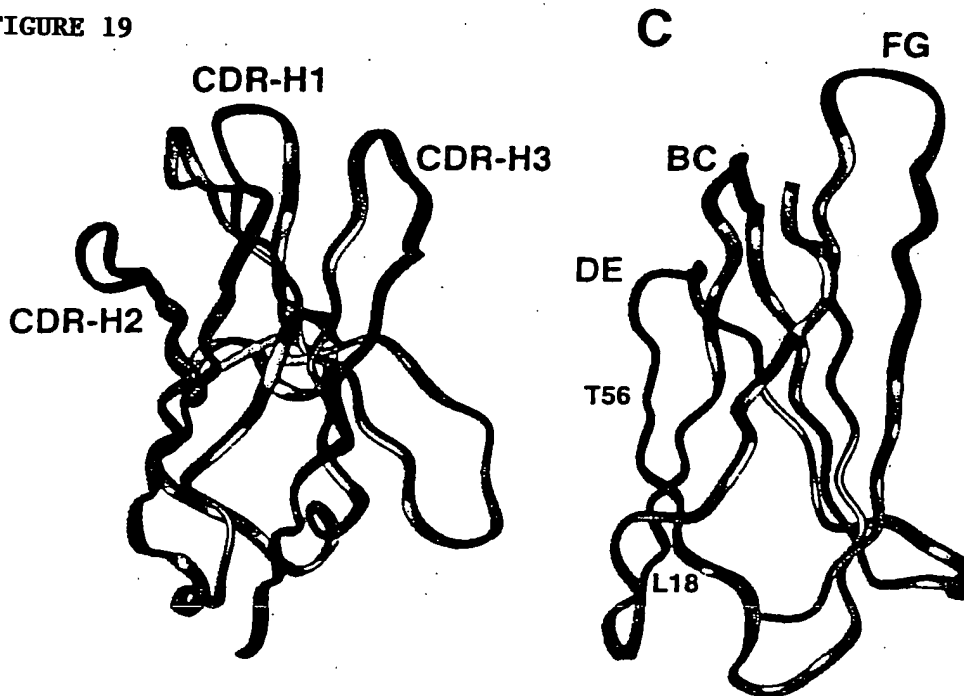


FIGURE 19



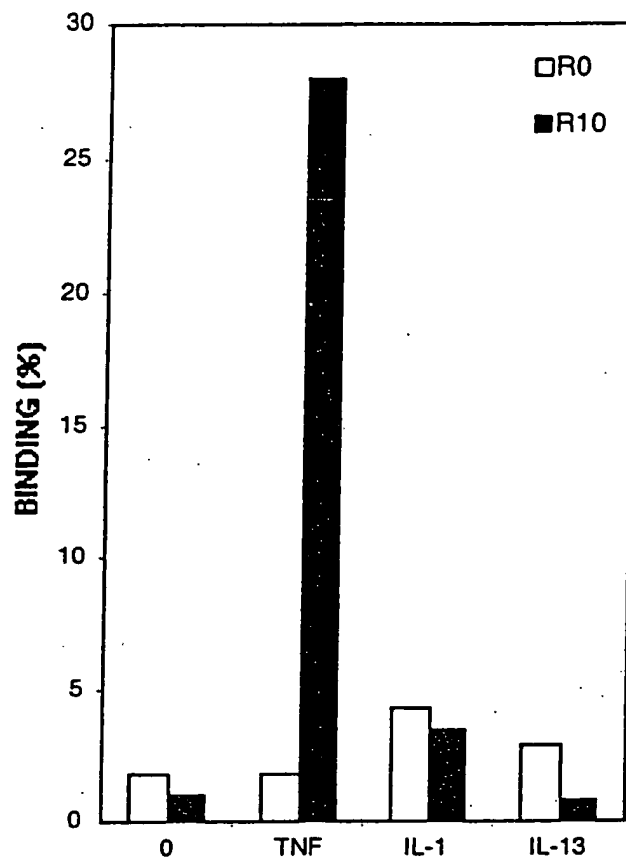


FIGURE 20

IgG-like Scaffolds for the Display of Three Loops

Title: PROTEIN SCAFFOLDS FOR ANTIBODY MIMICS AND OTHER BINDING PROTEINS

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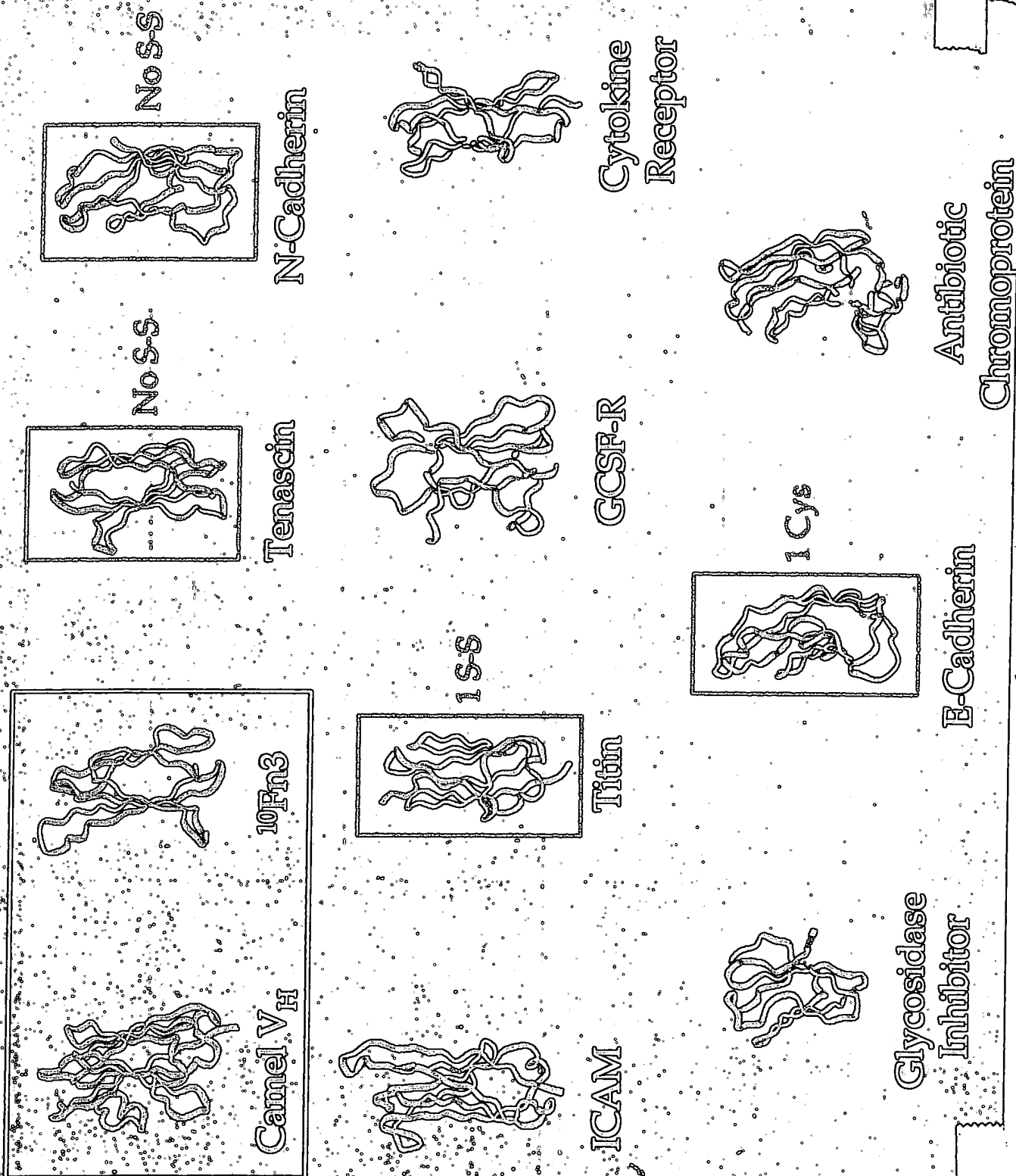
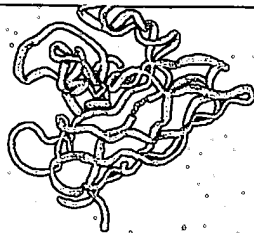
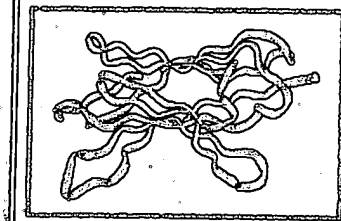
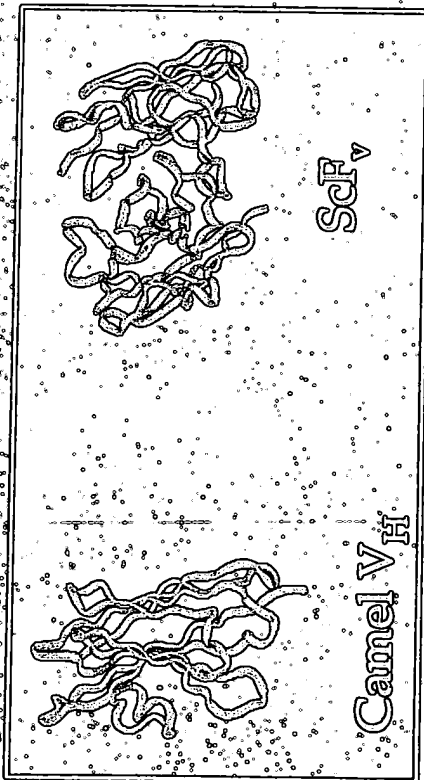


Figure 21

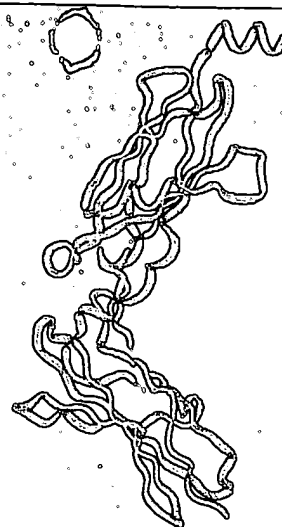
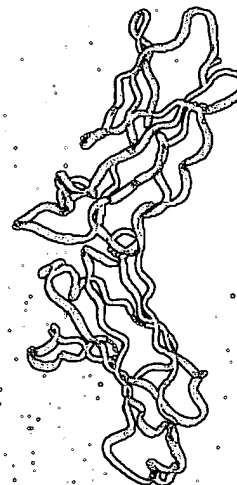
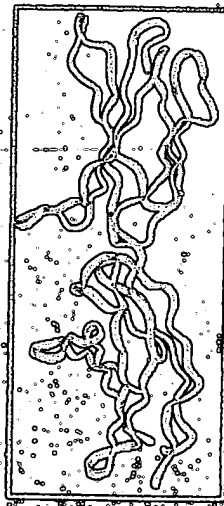
IgG-like Scaffolds for the Display of Four or Six Loops

4 Loops



1 S-S

No S-S



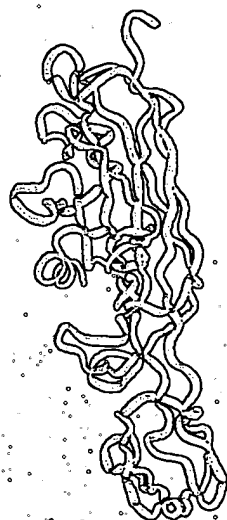
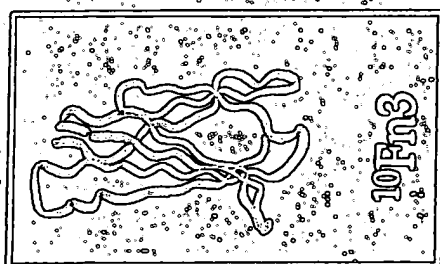
9Fn3-10Fn3

Tissue Factor

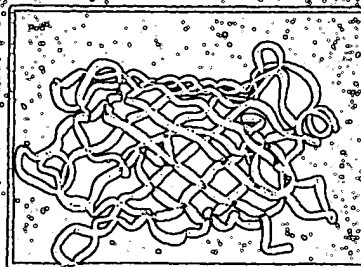
Cytokine Receptor

6 Loops

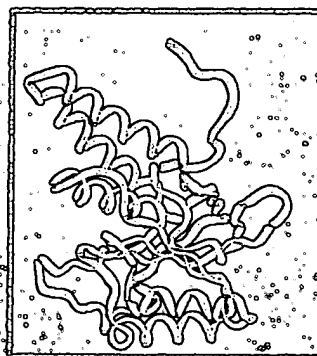
Scaffolds Unrelated to IgG



NoSS



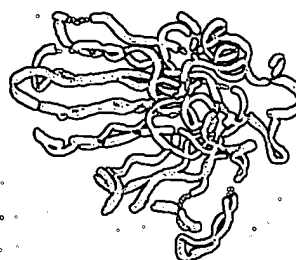
NoSS

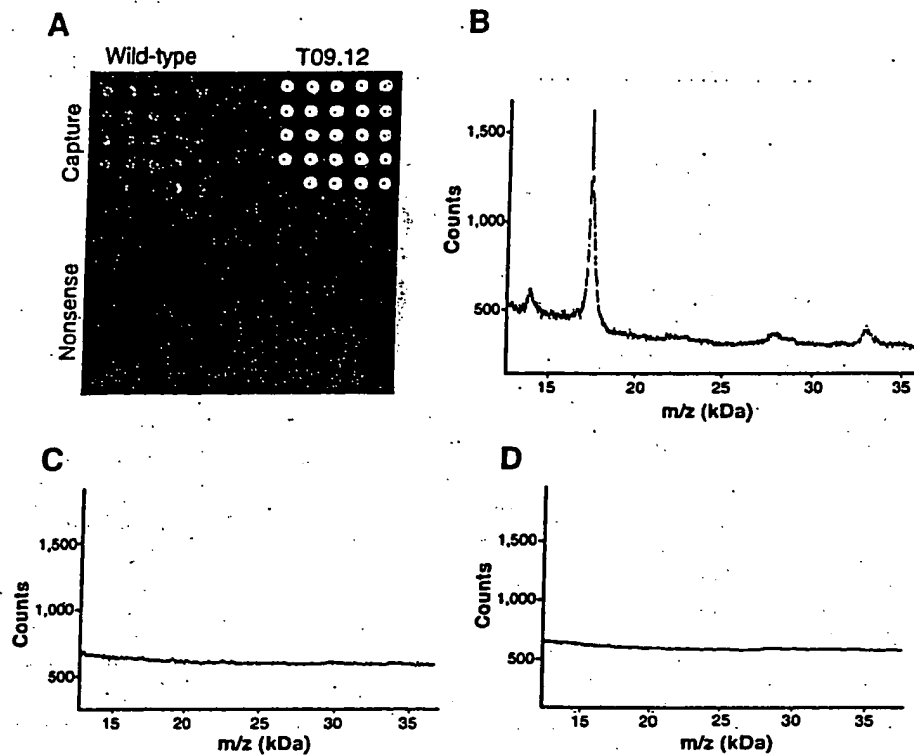


Green Fluorescent
Protein

GroEL

Thaumatin





FIGURES 24A - 24D

ROUND 9 (32)

BC			DE			FG			Seq
WT	15	16	DAPAVTV3031	45	46	GSKS	60	61	
T09.08	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSK	90
T09.26	VSEIPRDLEVVAATP	TSLLFSWDAPAVTVR	YRITYGETGNSLV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSKPIIS	INVRT		
T09.20	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPELNPTATIS	RLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.25	VSDVPRDLEVVAATP	TGLLISWNKSRMTTR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.30	VSDVPRDLEVVAATP	TSLLISWDS---SHR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.02	VSDVPRDLEVVAATP	TSLLISWHNNHIDMR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.34	VSDVPRDLEVVAATP	TSLLISWRTSPASPHG	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.03*	VSDVPRDLEVVAATP	TSLLISWRTSPASPHG	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.13	VSDVPRDLEVVAATP	TSLLISWRPNRLSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.29	VSDVPRDLEVVAATP	TCLLISWRPNRLSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.01	VSDVPRDLEVVAATP	TSLLISWDPNIRLR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.14	VSDVPRDLEVVAATP	TSLLISWFRSLQRDR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.24	VSDVPRDLEVVAATP	TSLLISWYRHTYRDR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.19	VSDVPRDLEVVAATP	TSLLISWYRHTYRDR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.31	VSDVPRDLEVVAATP	TSQLLISWPFGWYPSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.07	VSDVPRDLEVVAATP	TSRLISWRPGRYTSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.36	VSDVPRDLEVVAATP	TSRLISWASPPMMWR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.16	-NTTHYRKNYYATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.23	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.21	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.33*	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.10	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.28	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.15	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.09	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.35	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.06	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.11	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.12*	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.17	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.04	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		
T09.05	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPELNPTATIS	GLKPGVDY-TITVYA	VTQNGTPRRHLRPNF	H		

FIGURE 25 (Page 1)

ROUND 10 (29)

BC			DE			FG		
WT	15	16	DAPAVTV3031	45	46	GSKS	60	61
T10.37	VSDVPRDLEVVAAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.12	VSDVPRDLEVVAAATP	TSLLIRERE-----RR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.21	VSDVPRDLEVVAAATP	TSLLISRKDRVSSRR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.40	VSDVPRDLEVVAAATP	TSLLISWHMATPNTR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.31a	VSDVPRDLEVVAAATP	TSLLSSWYLCTGNNR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.41	ISDVPRDMEVVAAATP	TSLLISWRTPASPHG	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.13	VSDVPRDLKVAAATP	TSLLISWNMAHPDR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.03	VSDVPRDLEVVAAATP	TSLLISWFPDNATPR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.33	VSDVPRDLEVVAAATP	TSLLISWMLLRDRR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.27	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.05	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.01	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.34	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.36	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.30	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.06	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.17	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.18	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.39	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.02	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.08	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.20	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.29	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.15	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.15	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.35	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.26	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
T10.14	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
S08.02	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT
S08.03	VSDVPRDLEVVAAATP	TSLLISWSPNDADR	YRITYGETGNSPV	QEFVTPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	90	INVRT

FIGURE 25 (Page 2)

ROUND 14 (22)

BC

DE

FG

WT	15	16	DAPAVTV3031	45	46	GSKS	60	61	75	76GRGDSPASSK 90
T14.25	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSKPI	INVRT	INVRT	INVRT	INVRT
T14.03	VSDVPRDLEVVAATP	TSLLISWDTHNAYNG	YRITYGETXGNSPV	REFTVPHPEVTATIS	GLKPGVDD-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T10.06	VSDVPRDLEVVAATP	TSLLIXWTRTNANTR	YRITYGETGNSPV	QEFVAPNPPATIG	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.12	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.13	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.17	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.05	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.14	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.23	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.26	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.24	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.20	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.19	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.11	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.10	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.22	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.21	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.01	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.06	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.08	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.02	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT
T14.15	VSDVPRDLEVVAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPPWASIAAIS	GLKPGVDY-TITVYA	VTNHHMLPLRIFGPIS	INVRT	INVRT	INVRT	INVRT

FIGURE 25 (Page 3)

ROUND M12 (24)

		BC		DE		FG	
WT		15 16	DAPAVTV3031	45 46	GSKS	60 61	75 76
M12.05	VSDVPRDLEVAATP	TSLLSWDAPAVTVR	YRITYGETGNSPV	QEFTVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK 90	VTGRGDSPASSK 90
M12.17	VSDVPRDLEVAATP	TSLLSWSPNDADR	YRITYGKTGDSVP	QEFTVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK 90	VTGRGDSPASSK 90
M12.12	VSDVPSDLEVAATP	TSLLSWEQSPYGR	YRITYGETGNSPV	QEFTVPGSKSTATIS	GRKPGADY-TITVYA	VTQDQSYTYNSPIS	VTQDQSYTYNSPIS
M12.17	VSDVPSDLEVAATP	TSLLSWEQSPYGR	YRITYGETGNSPV	QEFTVPGSKSTATIS	GRKPGADY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.06	VPDVPDLEVAATP	TSLLSWDTHNAYNG	YRITYGETGNSPV	QEFTVPGSKSTATIS	GRKPGADY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.01	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QEFTVPHPEVTATIS	GLKPGVDD-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.01	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.24	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.25	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.23	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.04	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.03	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.07	VXDVPDLEVAATP	ISQLTSWQOPNGSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.13	VSDVPRDLEVAATP	TSRLISXRSRGNRTTR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.09	VSDVPRDLEVAATP	TSRLISWRPGRITYSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.16	VSDVPRDLEVAATP	TSRLISWRPGRITYSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.22	VSDVPRDLEVAATP	TSRLISWRPGRITYSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.26	VSDVPRDLEVAATP	TSRLISWRPGRITYSR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.15	VTDPVPRGLKIVAATP	-SLLISWRPPADLNR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.18	VSDVPRDLEVAADP	HQPLICWASPPMWR	YRITYGETGNSPV	QEFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.14	VSDVPRDLKVVVATP	TSRLISWTHDNVPR	YRITYGETGNSPV	QELTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.21	VSDVPRDPVVVATP	TSLLSWYRHTYRDR	YRITYGETGNSPV	QELTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.19	VSDVPRDLEVAATP	TGLLSWRNNQYTPR	HYGITYGETGNSPV	QELTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS
M12.08	VSDVPRDLEVAATP	TSLLNVP-----IIR	YRITYGETGNSPV	QELTVPPWASIAATIS	GLKPGVDY-TITVYA	VTIEKDRIFLFGPIS	VTIEKDRIFLFGPIS

FIGURE 25 (Page 4)